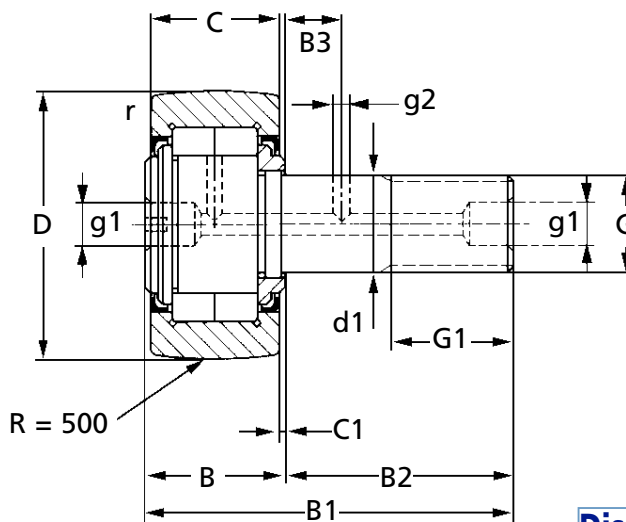
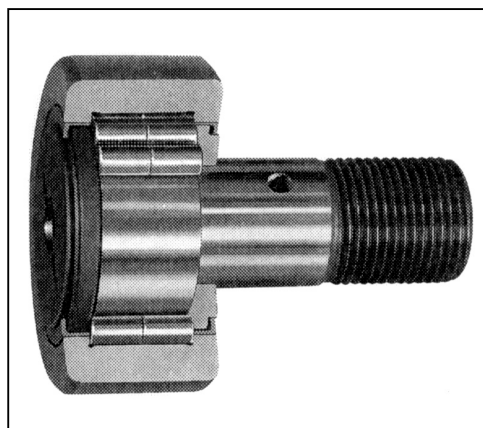


**NUCF-R**

# BEARINGS

## Heavy Duty Type Cam Followers

Stud Diameter 10 - 30mm

**Discounts: 20+ -8.5%**

Part Number	Weight (Ref.) g	Mounting Dimension f Min. mm	Max. Tightening Torque N·m	Basic Dynamic Load Rating C N	Basic Static Load Rating C <sub>s</sub> N	Max. Allowable Load N
NUCF-10R	44	12	11.77	10395	11473	6864
NUCF-10-1R	58	12	11.77	10395	11473	7943
NUCF-12R	86	17	21.57	13925	13435	7256
NUCF-12-1R	97	17	21.57	13925	13435	9806
NUCF-16R	167	20	56.88	23339	27262	15984
NUCF-18R	244	22	83.36	25203	30989	21966
NUCF-20R	457	31	117.68	43051	58251	34813
NUCF-20-1R	384	27	117.68	38932	49033	32852
NUCF-24R	789	38	215.75	58153	75217	45600
NUCF-24-1R	1020	44	215.75	63939	88848	59820
NUCF-30R	1600	45	451.11	90319	120621	94634
NUCF-30-2R	1970	45	451.11	90319	120621	117679

Part Number	d1 Stud Dia. mm	D	C	G	G1	B max.	B1 max.	B2	B3	C1	g1	g2	r min(1)	Price Each 1 - 19
NUCF-10R	10	22	12	M10 x 1.25	12	13.2	36.2	23.0	-	0.6	*4	-	0.3	£41.19
NUCF-10-1R	10	26	12	M10 x 1.25	12	13.2	36.2	23.0	-	0.6	*4	-	0.3	£43.56
NUCF-12R	12	30	14	M12 x 1.50	13	15.2	40.2	25.0	6	0.6	6	3	0.6	£38.74
NUCF-12-1R	12	32	14	M12 x 1.50	13	15.2	40.2	25.0	6	0.6	6	3	0.6	£40.83
NUCF-16R	16	35	18	M16 x 1.50	17	19.6	52.1	32.5	8	0.8	6	3	0.6	£44.37
NUCF-18R	18	40	20	M18 x 1.50	19	21.6	58.1	36.5	8	0.8	6	3	1.0	£52.36
NUCF-20R	20	52	24	M20 x 1.50	21	25.6	66.1	40.5	9	0.8	8	4	1.0	£59.58
NUCF-20-1R	20	47	24	M20 x 1.50	21	25.6	66.1	40.5	9	0.8	8	4	1.0	£59.58
NUCF-24R	24	62	29	M24 x 1.50	25	30.6	80.1	49.5	11	0.8	8	4	1.0	£92.37
NUCF-24-1R	24	72	29	M24 x 1.50	25	30.6	80.1	49.5	11	0.8	8	4	1.0	£97.10
NUCF-30R	30	80	35	M30 x 1.50	32	37.0	100.0	63.0	15	1.0	8	4	1.0	£122.02
NUCF-30-2R	30	90	35	M30 x 1.50	32	37.0	100.0	63.0	15	1.0	8	4	1.0	£138.56

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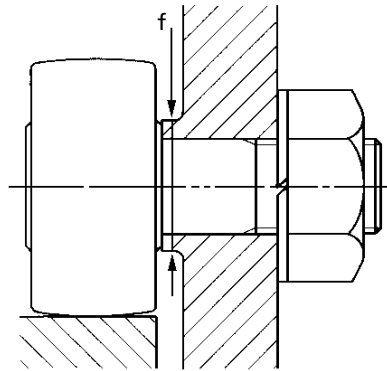
Product information updated 1st April 2011 and subject to change. Please contact Sales for the latest prices and availability.

# BEARINGS

NUCF-R

## Heavy Duty Type Cam Followers

Stud Diameter 10 - 30mm



**Table 1: Track Capacity**

Type: metric series (§§) Cam Followers			
Part No.(§) With Crowned Outer Ring	Track Capacity N	Part No.(§) With Cylindrical Outer Ring	Track Capacity N
NUCF-10R	1569	-	-
NUCF-10-1R	2059	-	-
NUCF-12R	2451	-	-
NUCF-12-1R	2745	-	-
NUCF-16R	3040	-	-
NUCF-18R	3628	-	-
NUCF-20R	5197	-	-
NUCF-20-1R	4511	-	-
NUCF-24R	6570	-	-
NUCF-24-1R	8041	-	-
NUCF-30R	9218	-	-
NUCF-30-2R	10787	-	-

**Table 2: Track Capacity Factor**

Hardness HRC	Tensile Strength N/mm <sup>2</sup>	Track Capacity Factor	
		With Crowned Outer Ring	With Cylindrical Outer Ring
20	755	0.22	0.37
25	843	0.31	0.46
30	951	0.45	0.58
35	1078	0.65	0.75
38	1176	0.85	0.89
40	1245	1.00	1.00
42	1333	1.23	1.15
44	1431	1.52	1.32
46	1529	1.85	1.51
48	1637	2.27	1.73
50	1755	2.80	1.99
52	1882	3.46	2.29
54	2010	4.21	2.61
56	2147	5.13	2.97
58	2294	6.26	3.39

Track capacity is defined as the load which can be continuously applied on a Cam Follower placed on a steel track surface without causing deformation and indentation (dent) on the track surface. The track capacities shown in Table 1 are applicable when the hardness of the mating track surface differs from HRC40, the track capacity is obtained by multiplying the value with a track capacity factor shown in Table 2.

If lubrication between the outer ring and the mating track surface is insufficient, seizure and/or wear may occur depending on the application. Therefore, it is suggested that attention should be paid to both lubrication and surface roughness of the mating track especially in case of high speed rotation such as cam mechanisms.

**Allowable Rotational Speed** is affected by mounting and operating conditions. The  $d \cdot n$  values in general operation under pure radial load are shown below for reference. It is recommended to use 1/10 of the table values in actual applications taking account of axial loads that may be applied.

**$d \cdot n$  Values where  $d$  = Stud Diameter (mm) and  $n$  = Number of Rotations per minute (Rpm)**

**Max  $d \cdot n$  Values** With cage Type = 84,000  $d \cdot n$  (with grease lubricant); Full Complement Type = 42,000  $d \cdot n$  (with grease lubricant)

### Material

Carbon Steel all parts.

### Notes

(1) Minimum allowable value of chamfer "r".

\*=one oil hole prepared only in the flange head of stud.

(§) It is also applicable to Full complement type, with hexagon hole type and sealed type.

(§§) Only representative types are shown in the table, but applicable to all metric sizes.